

## Specimen treatment

1 x dressed

- briefly annealed while undressed
- dressed

2 x dressed

- briefly annealed while dressed
- dressed

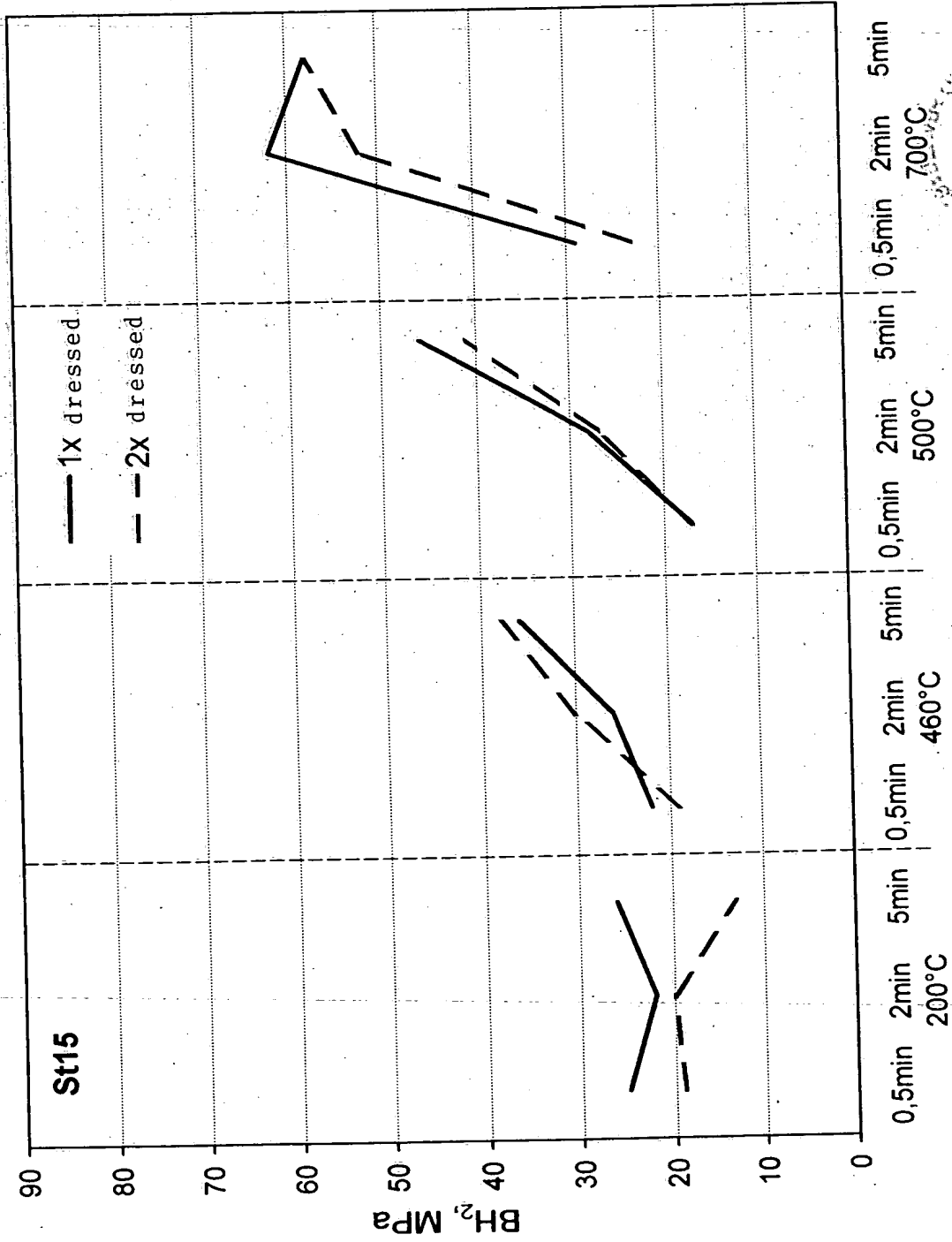


Fig 1

## Specimen treatment

1 x dressed

- briefly annealed while undressed
- dressed

2 x dressed

- briefly annealed while dressed
- dressed

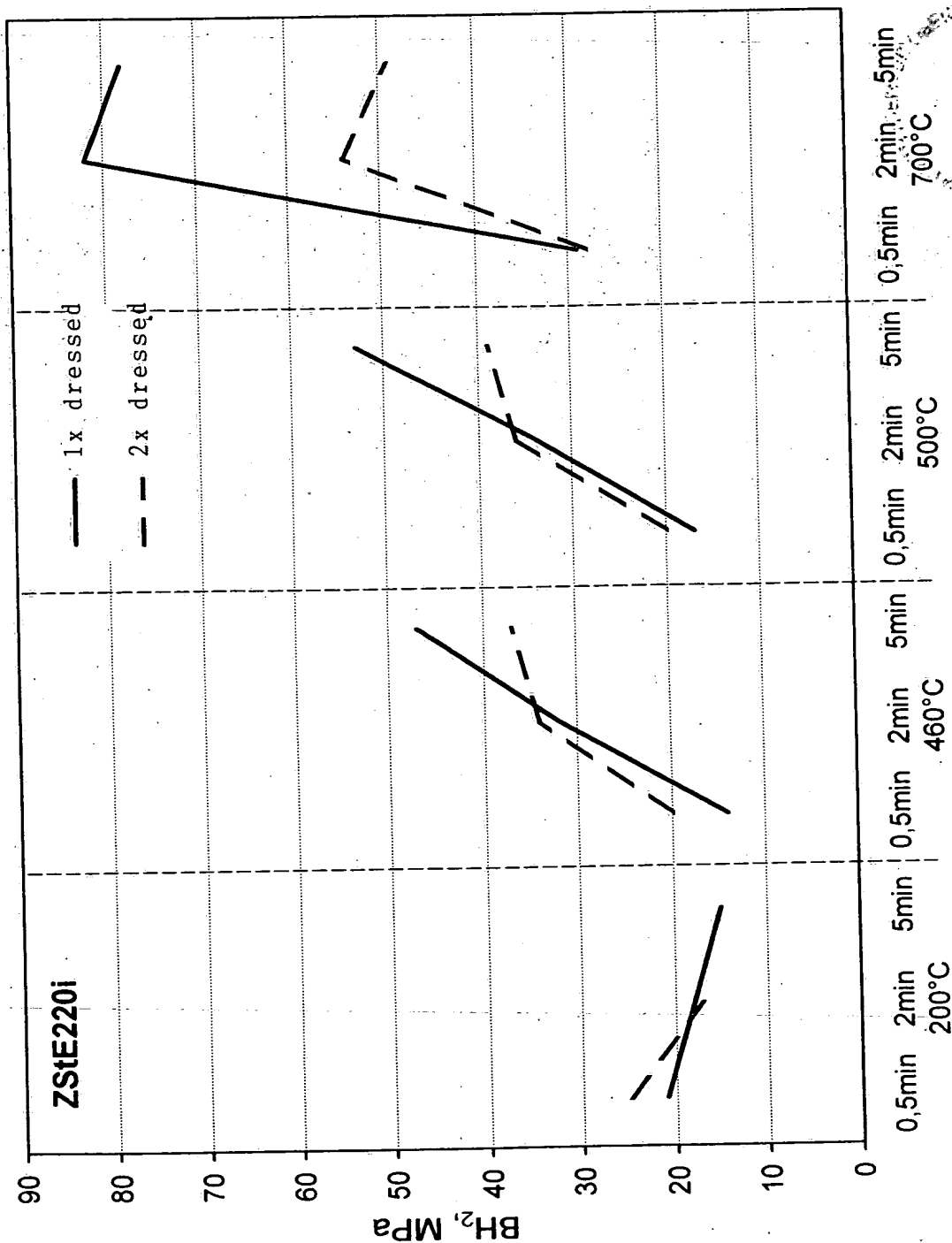


Fig 2

## Specimen treatment

1 x dressed

- briefly annealed while undressed
- dressed

2 x dressed

- briefly annealed while dressed
- dressed

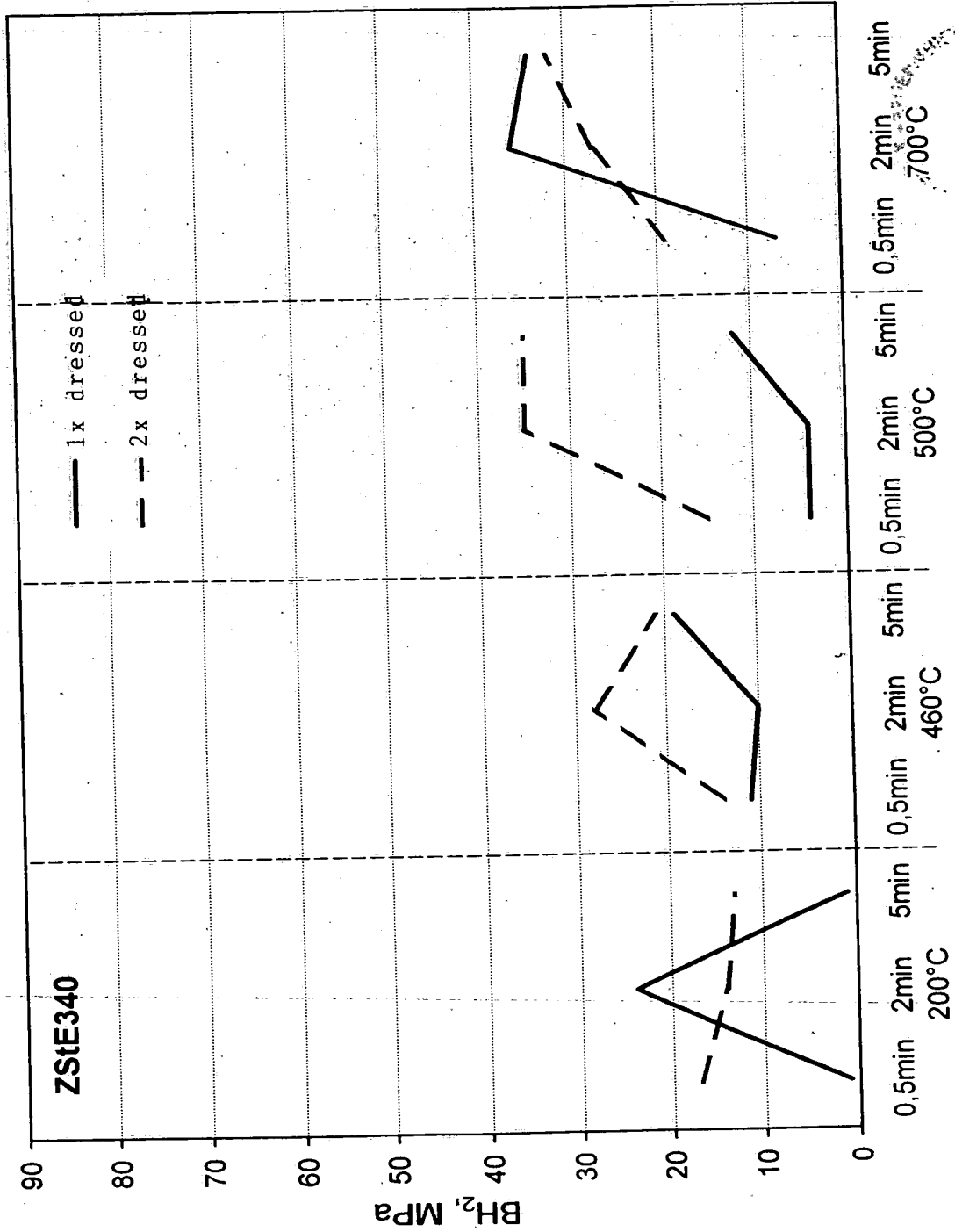
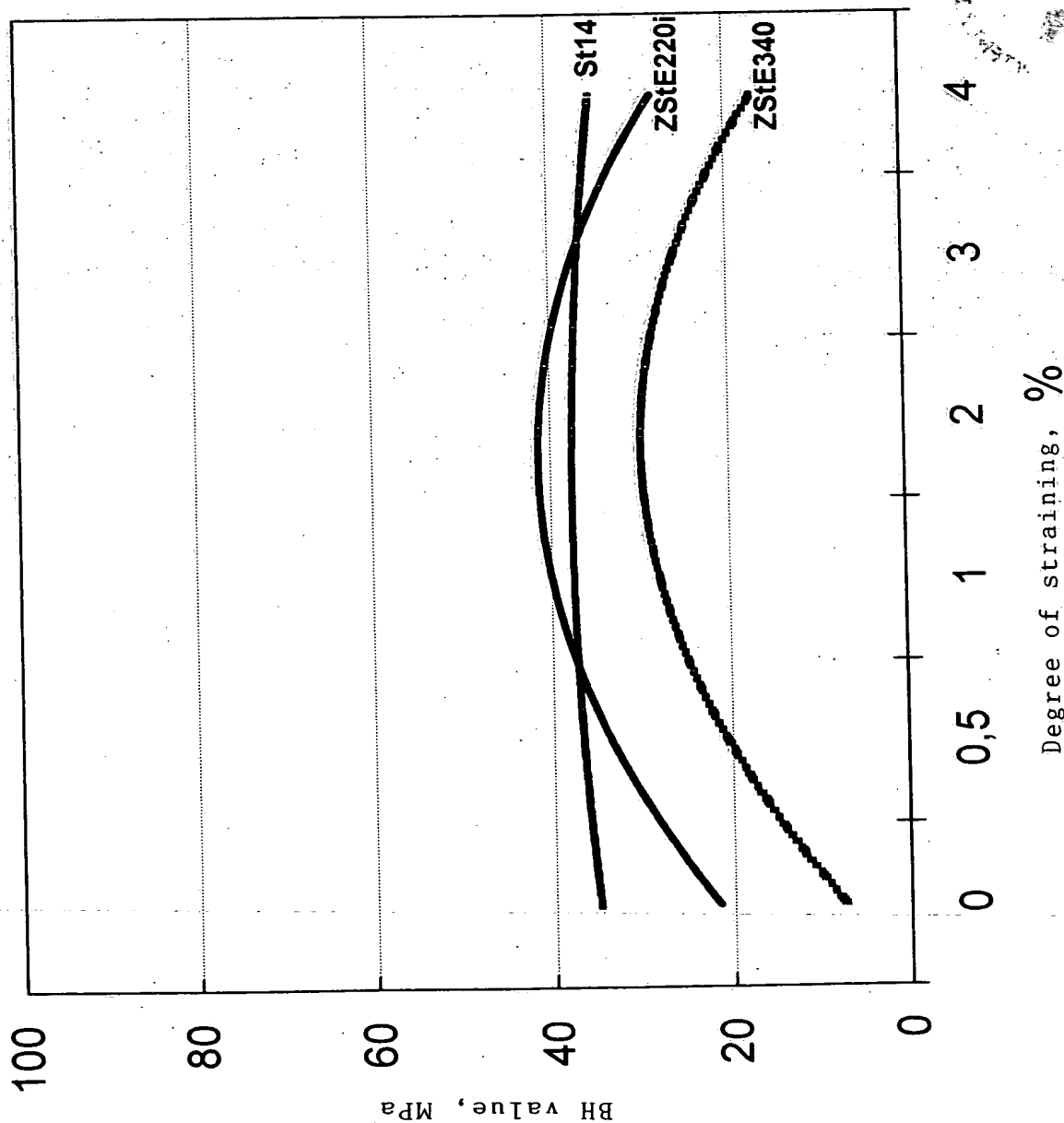


Fig. 3



— ZStE220i  
 — St14  
 — ZStE340

# Specimen treatment

Undressed specimens

Annealing: 5 minutes at 500°C

Dressing 0.5% (St14)

0.8% (ZStE220i)

1.0% (ZStE340)

BH annealing: 20 minutes at 170°C

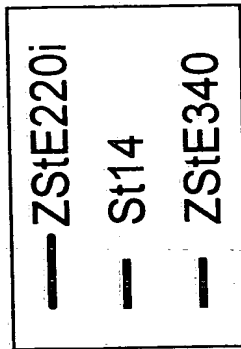
Fig. 4

Degree of straining, %

BH value, MPa

4/11

5/11



Specimen treatment  
Undressed specimens  
Annealing: 15 minutes at  
500°C

Dressing 0.5% (St14)  
0.8% (ZStE220i)  
1.0% (ZStE340)

BH annealing: 20 minutes at  
170°C

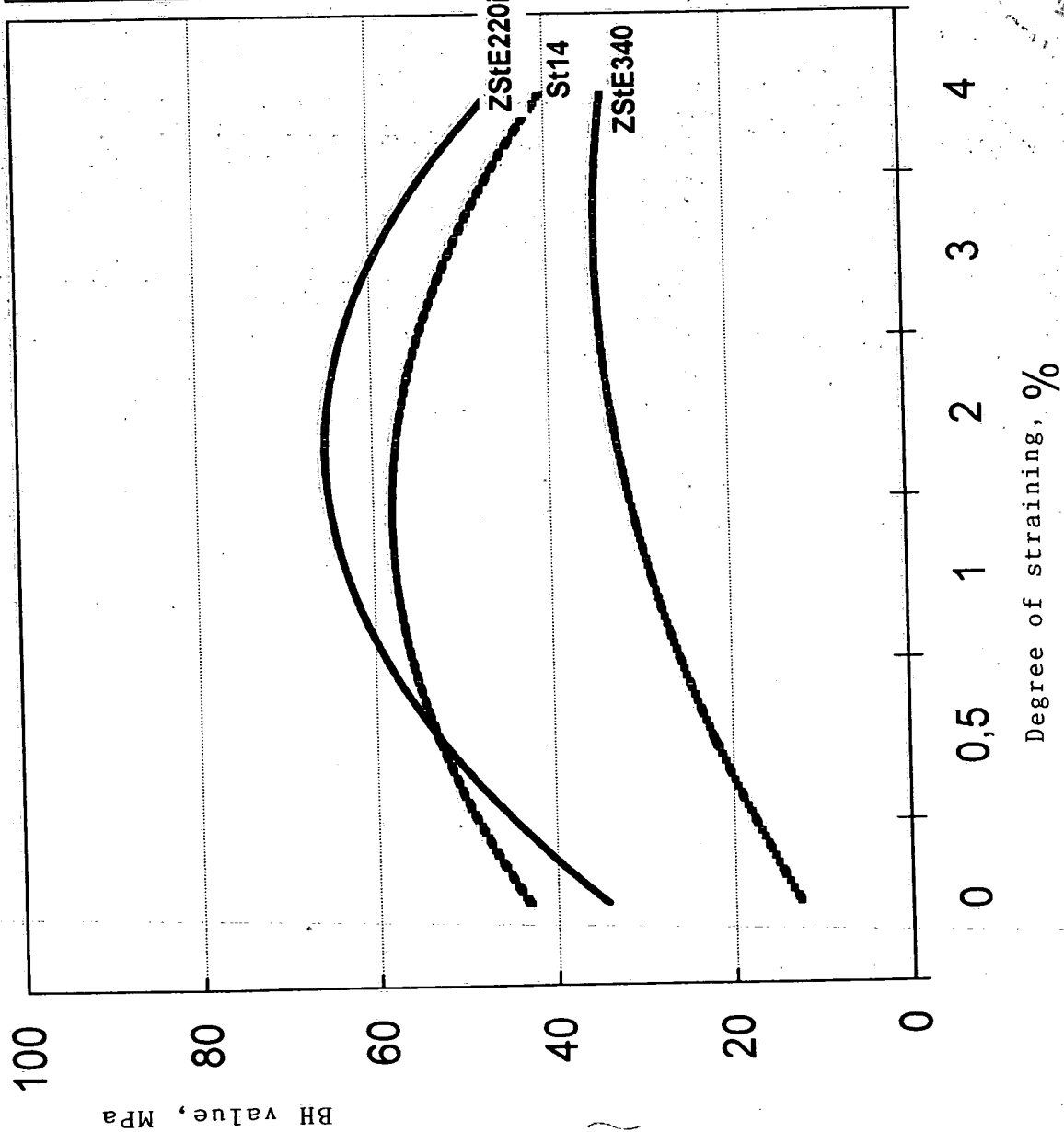
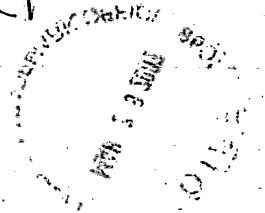
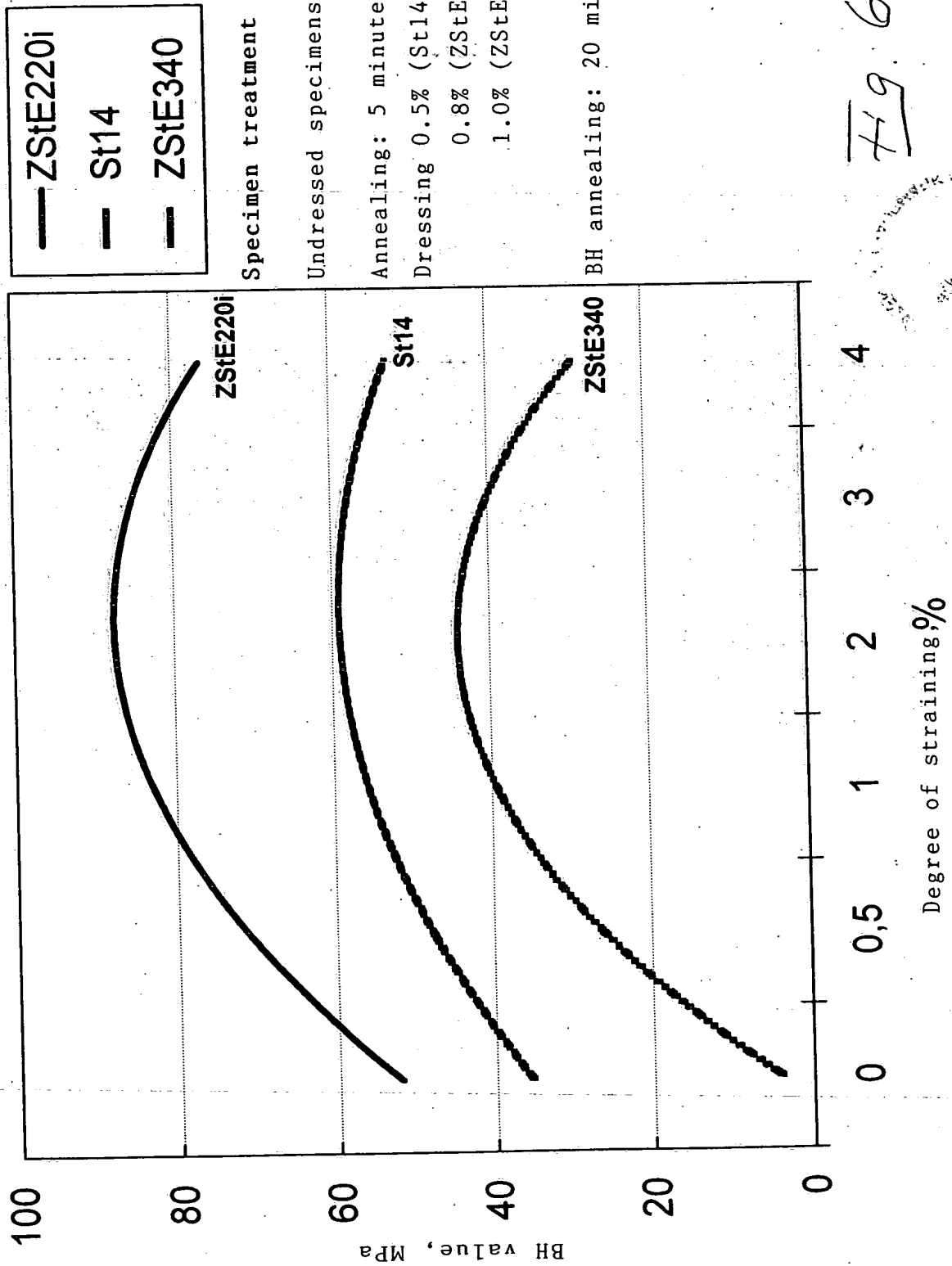
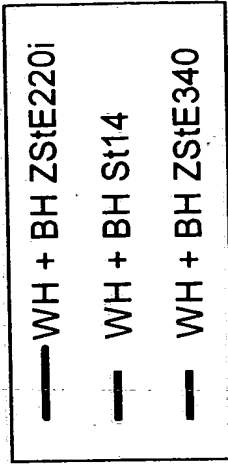


Fig. 5







Specimen treatment

Undressed specimens

Annealing: 5 minutes at 700°C

Dressing 0.5% (St14)

0.8% (ZStE220i)

1.0% (ZStE340)

BH annealing: 20 minutes at 170°C

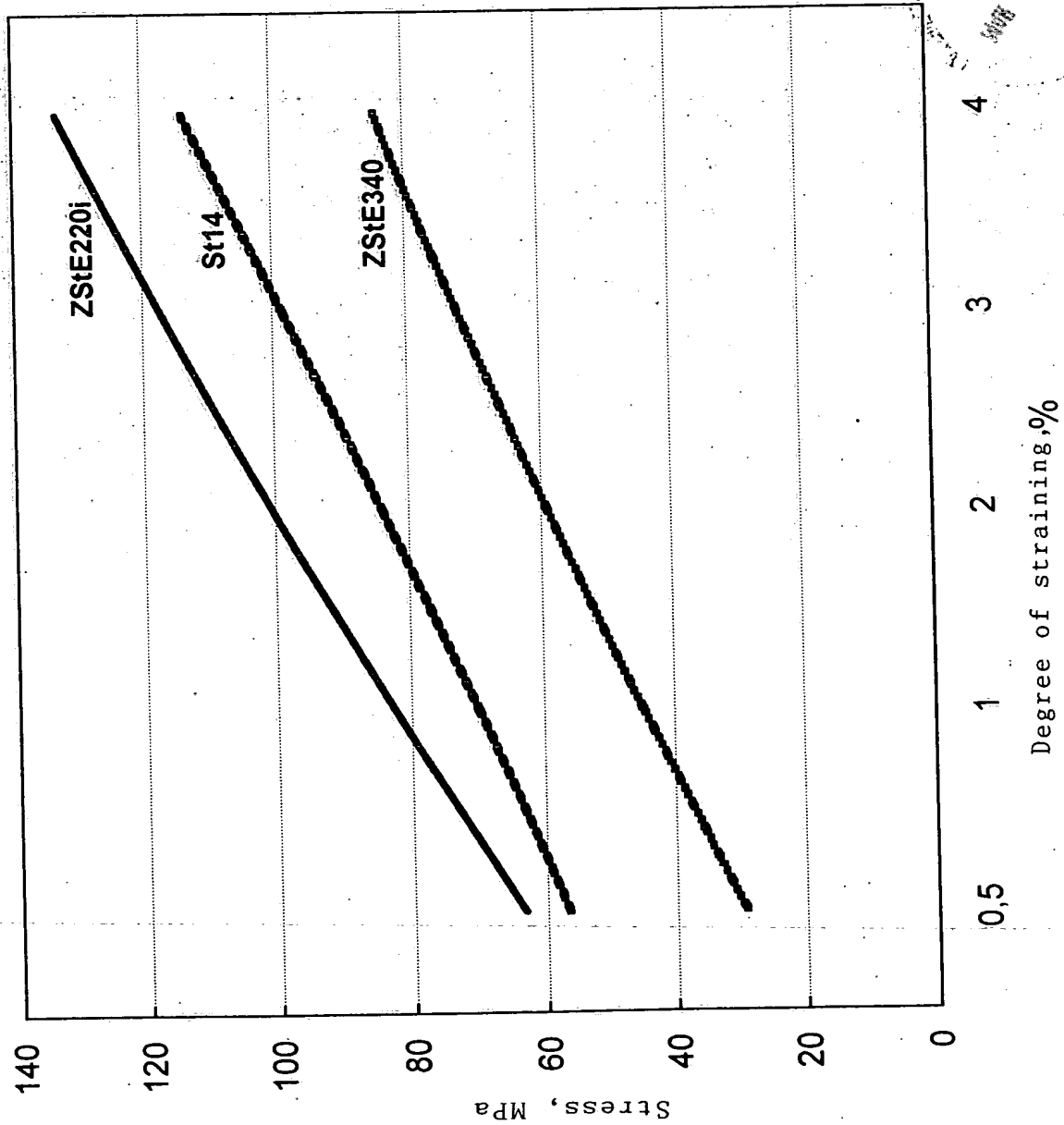
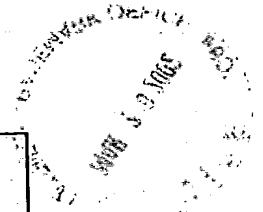


Fig 7



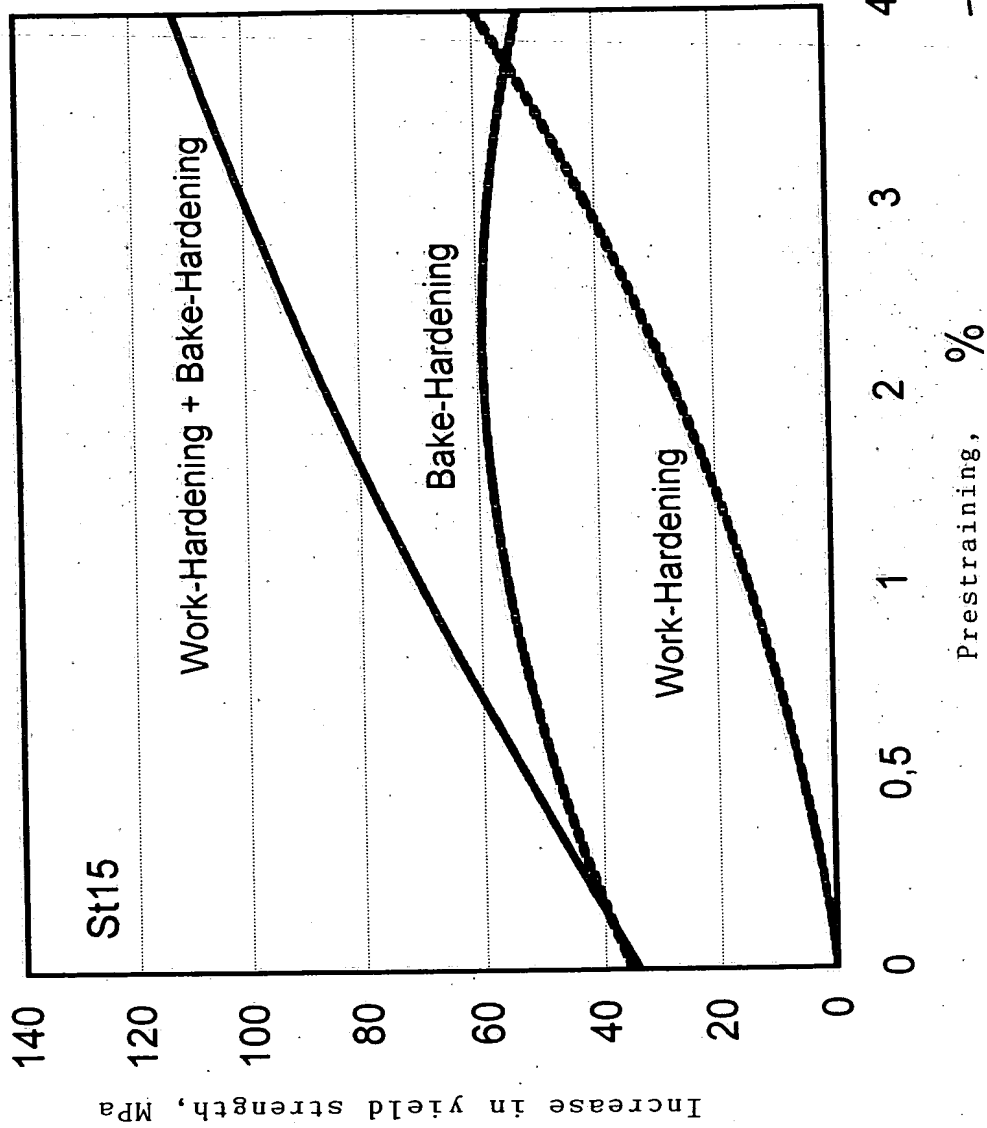
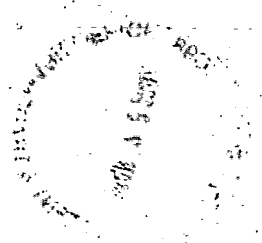


Fig. 8





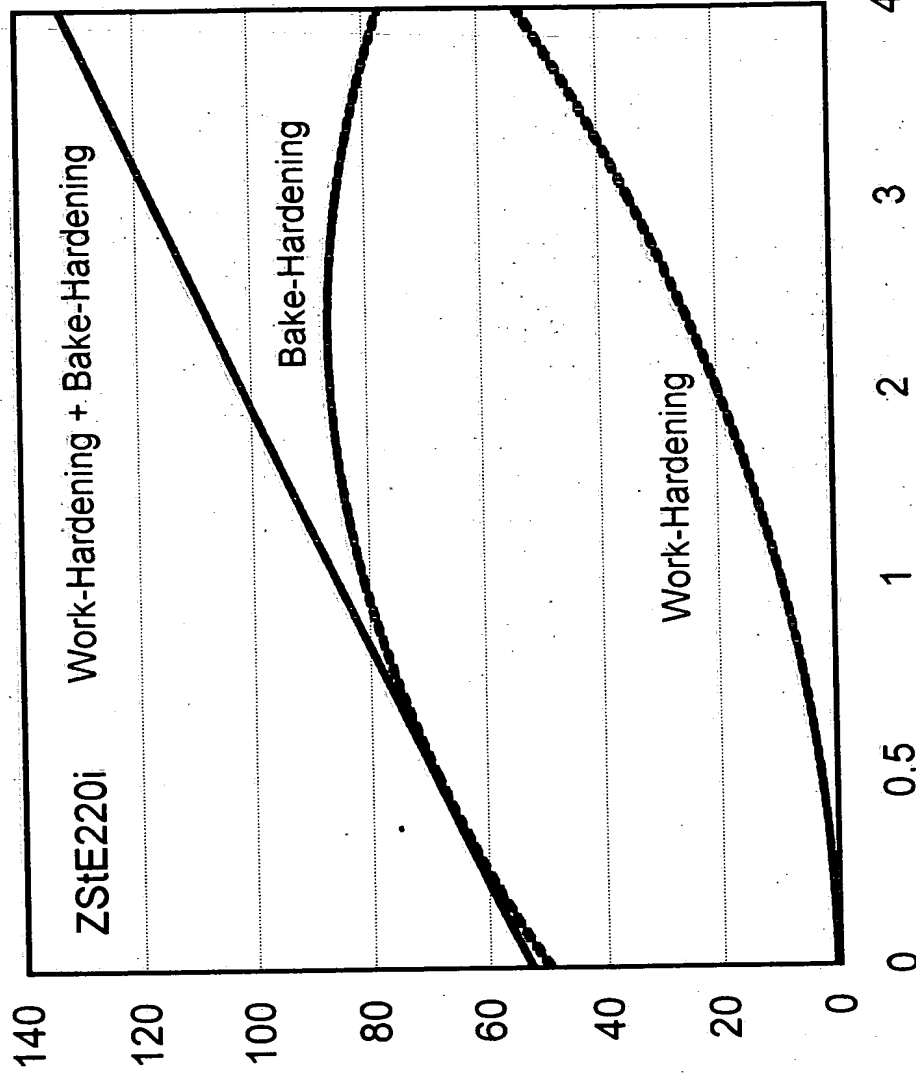
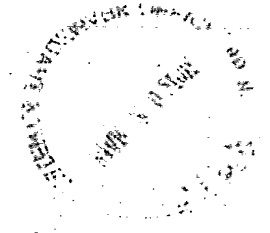
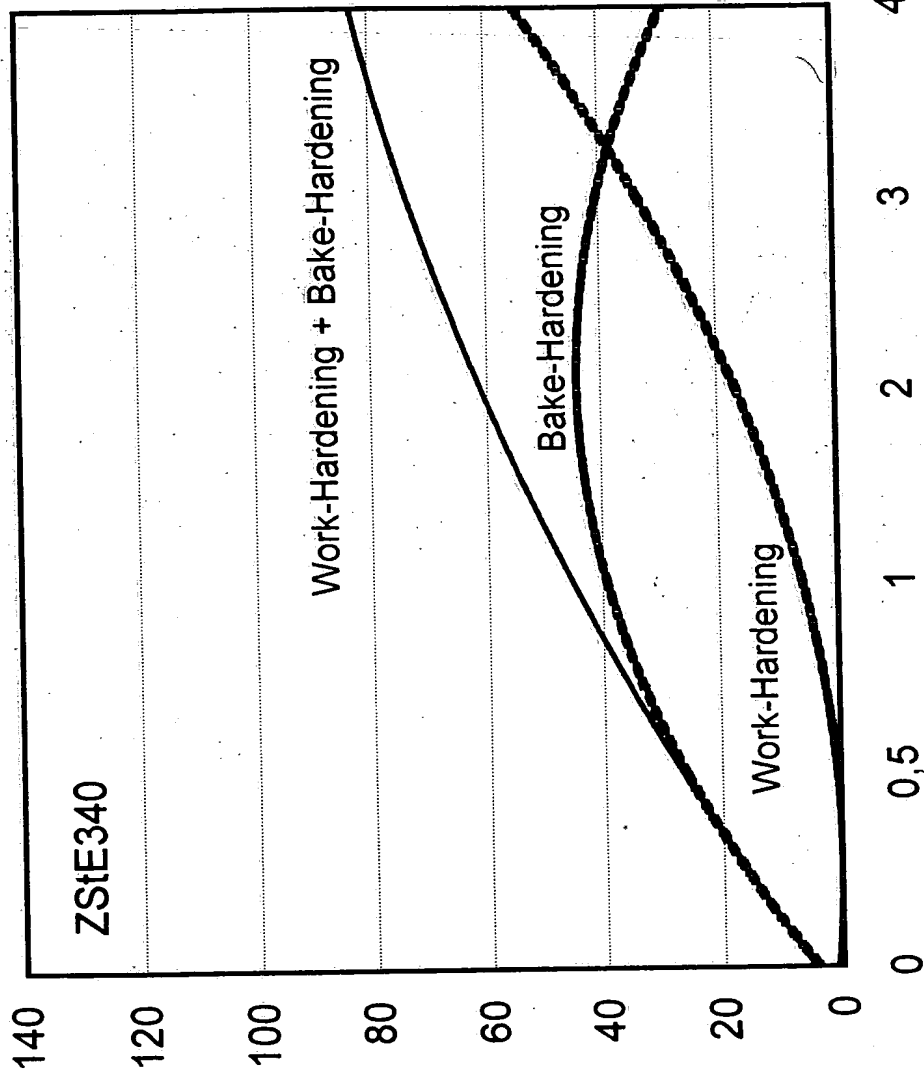


Fig 9



Increase in yield strength, MPa

Prestraining, %



Prestraining, %

Fig 10

Increase in yield strength, MPa

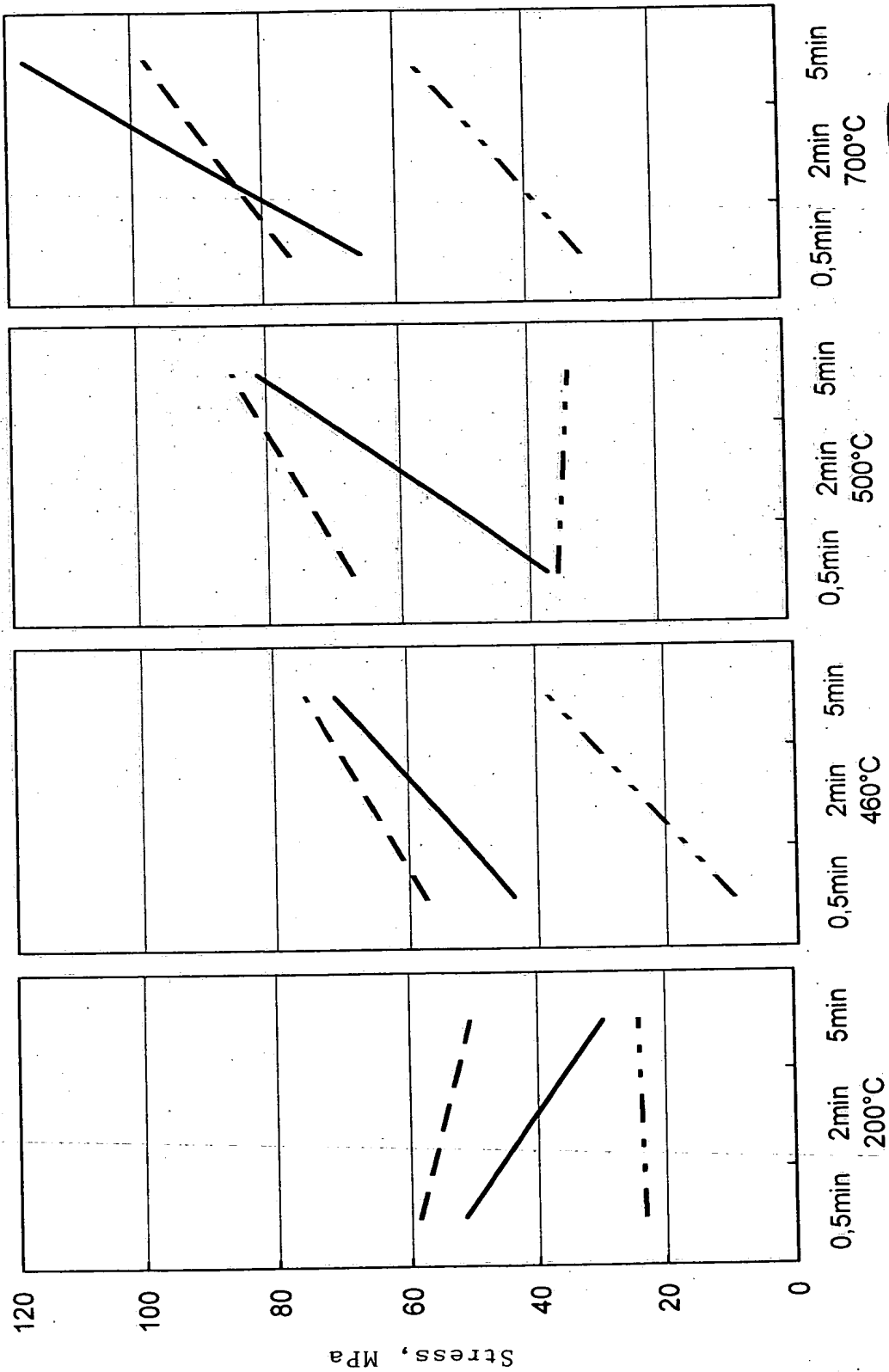


Fig 11

Annealing period and temperature of the additional annealing

-- WH + BH2 St15 — WH + BH2 ZStE220i — - WH + BH2 ZStE340 Specimen condition: briefly annealed while undressed, dressed